## **CLAIMS**

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What	10	CI2	ım	ലെ	IS:

	[00043)	1.	A plain old telephone service (POTS) extender for at least one				
	conductor pair for providing packets to a packet network and receiving packets from						
the packet network comprising:							

a subscriber line interface circuit (SLIC) having a connection to the at least one conductor pair, said SLIC having a upstream voice signal output and a downstream voice signal input;

a codec for converting the upstream voice signal output to a upstream digital voice signal output and converting a downstream digital voice signal input to the downstream voice signal;

a vocoder for converting the upstream digital voice signal output to a first data stream and for converting a second data stream to the downstream digital voice signal input;

a packet assembler and disassembler (PAD) for converting the first data stream into a first at least one packet and for converting a second at least one packet into the second data stream, said PAD coupled to the packet network, said PAD having at least one network address; and

an output means for transmitting a master DSL modem control signal based on a fallback signal carried by the at least one conductor pair.

[00044] 2. The POTS extender of claim 1, wherein the output means further comprises:

a loop current detector having a connection to the at least one conductor pair, said loop current detector providing the master DSL modem control signal.

[00045] 3. The POTS extender of claim 1 wherein the SLIC further comprises:

a telephony current source;

switch hook detector; and

5 a ringing signal source.

1	[00046]	4.	The POTS extender of claim 1 further comprising:					
2		a mast	ter DSL modem having at least one network address and					
3	connec	cted to 1	the at least one conductor pair.					
1	[00046]	5.	The local loop circuit of claim 4 wherein the at least one					
2	network addre	ress comprises at least one asynchronous transfer mode virtual circuit.						
1	[00047]	6.	The POTS extender of claim 1 wherein the at least one					
2	network addre	ess comprises at least one asynchronous transfer mode virtual circuit.						
1	[00048]	7.	A DSL suppression circuit for suppressing DSL modem					
2	operation on a local loop comprising:							
3		a loop	current detector for sensing current drain on the local loop;					
4		a mea	ns for providing a suppression signal controllable by said loop					
5	current detector; and							
6		a mas	ter DSL modem operative coupled to the SLIC, said master DSL					
7	moder	n opera	ating in a quiescent state upon receiving the suppression signal.					
1	[00049]	8.	The DSL suppression circuit of claim 7 wherein the means for					
2	providing a su	ng a suppression signal comprises:						
3		a rela	ay operable on a removal of power to connect a voice conductor					
4	pair to	the loc	al loop.					
1	[00050]	9.	A method for providing a customer premise line connection to					
2	a DSL moden	n compi	rising the steps of:					
3	detecting whether the line has a off-hook condition or an on-hook							
4	condition; and							
5		energi	izing a relay to couple the customer premise line to the DSL					
6	moder	m, provi	iding the line has an on-hook condition.					
1	[00051]	10.	The method of claim 9 wherein the step of detecting an off-					
2	hook condition	n comp	orises the step of sensing current drain.					
1	[00052]	11.	The method of claim 9 further comprising the step of booting					
2	up a processo	or.						
1	[00053]	12.	The method of claim 9 wherein the step of energizing a relay					
2	comprises co	nnectin	g the line to at least one subscriber line interface circuit (SLIC).					

[00054] 13. The method of claim 12 wherein the step of energizing a relay comprises connecting the DSL modem to a subscriber line.